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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

DATA QUALITY OBJECTIVE

**DOCUMENT CONTROL NO.: START-02-F-01817
CORNELL DUBILIER ELECTRONICS
PROJECT NO.: 2523**

**SAMPLING DATE MAY 5,1998
SAMPLING GROUP: 6078 & 6098**

**REPORTED BY
ROY F. WESTON, INC.**

REVIEWED BY: Zohreh Hamid

**Zohreh Hamid, Ph.D.
Senior Chemist**

6-14-98

Date





CORNELL DUBILIER ELECTRONICS
PROJECT NUMBER: 2523
DCN: START-02-F-01817
SAMPLING DATE 5-5-98

INTRODUCTION

This quality assurance review is based upon a review of all data generated from thirty-one soil samples, including two sets of field duplicates, and one reagent blank, collected on 05-05-98. The samples received on 05-06-98 by Ecology & Environment, Inc. (E & E) Laboratory, located in Lancaster, New York. The samples were grouped in two different SDG numbers by the laboratory, and analyzed according to the criteria set forth in SW846 Method 8082, for Poly Chlorinated Biphenyl (PCB) target compounds. The samples are tabulated in the following:

SDG NUMBER	SAMPLE ID
6078	A2-008 to A2-016 & A3-001 to A3-010 & A1-003A
6098	A4-001 to A4-011 & RB-2

Two sets of MS/MSD samples were analyzed on samples A2-008 & A4-001.

All data have been validated with regard to usability according to USEPA Region II Functional Guidelines and the Quality Control criteria established in the applied Method. If you have any questions or comments on this data review, please call Zohreh Hamid at (610) 269-9989.

QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a review of the following criteria:

- Holding Times
- Calibrations
- Blanks
- Surrogate Recoveries
- Standards Recovery
- Matrix Spike/Spike Duplicate/Blank Spike Analyses
- Instrument Performance
- Field Duplicate Result
- Sample Results
- Data Completeness



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HOLDING TIME

All samples were extracted/analyzed within the Region II requirements.

CALIBRATIONS

A five-point calibration analysis was performed for aroclor-1016, aroclor-1254 and aroclor-1260. The percent RSDs were within the control limits of 20% at least in one column. Also, aroclor-1254 and aroclor-1660 were analyzed as continuing calibrations. The %Ds were within the control limits of less than 15% for all standards analyzed on primary and secondary columns.

The calibration blanks were not analyzed during the initial and continuing calibrations. However, the cross contamination was not expected, since "hexane" was analyzed prior to each calibration standard. The chromatogram for hexane was free of target and non-target compound peaks.

BLANK ANALYSIS

The preparation blanks and reagent blank were free of target compounds.

MATRIX SPIKE/SPIKE DUPLICATE ANALYSIS

Two sets of matrix spike/spike duplicate analyses were performed for soil samples. Also, one set of MS/MSD analyzed for water sample. The recoveries and RPDs were within the control limits of 50-150% and 50% respectively.

Blank spike/spike duplicate samples (BS/BSD) were not analyzed for these SDGs.

STANDARD RECOVERY

All external standard recoveries and retention times in the initial and continuing calibrations were within the control limits on the primary and secondary columns.



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SURROGATE RECOVERIES

The surrogate recoveries for TCX and DCB were within the control limits of 50-150% range with the exception of the following DCB surrogate compound recoveries:

Sample ID	Column #1	Column #2
A1-003A	176	183
A2-014	154	
A3-009	162	154
A3-010		167
A4-007	38	42
RB-2	29	26

Also, the recoveries of TCX surrogate compound in water blank (16/16%) and A4-007 (49/48%) were below the control limits of 50% on both column. The data for the above samples were not qualified, since at least one surrogate compound met the requirements with the exception of A4-007. The recoveries for sample A4-007 were above 10%. Therefore, the data were not qualified based on this advisory limit.

DUPLICATE ANALYSIS

Two sets of field duplicate sample analyses were performed for these samples. The RPDs were listed in the following:

Sample IDs	Compound Name	Field Sample Result	Field Dup Results	RPD
A2-008/016	Aroclor-1254	500	530	9
	Arclor-1260	140J	ND	NA
A4-001/010	Aroclor-1254	270	270	0
	Aroclor-1260	110	100	10

NA= Not applicable, since the values were below the detection limits.

The RPDs demonstrated the acceptable reproducibility for this matrix/analysis.



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SAMPLE RESULTS

The results were reported from two different columns. The %Ds for the reported results was within the validation requirement limit of 50% with the exception of the following:

Sample ID	Compound Name	%D
A1-003A	Ar-1260	81
A2-008	Ar-1260	71
A2-010	Ar-1260	96
A2-0011	Ar-1260	73
A2-013	Ar-1260	72
A2-014	Ar-1254	314
A2-016	Ar-1254	307
A3-001	Ar-1254	159
A3-002	Ar-1260	67
A3-004	Ar-1254	309
A3-006	Ar-1260	92
A3-008	Ar-1260	58
A3-009	Ar-1254	57
A3-010	Ar-1254	120
A4-004	Ar-1254	308
	Ar-1260	94
A4-005	Ar-1260	125
A4-006	AR-1260	82
A4-007	Ar-1260	55
A4-009	Ar-1260	75
A4-011	Ar-1260	81

Note: The sample results were flagged "P" by the laboratory for the %Ds above 25%. However, based on the validation requirements, the results were not qualified when the %D is less than 50%.

The reported results were contractually qualified estimated.



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Several samples were analyzed at higher dilutions due to the high levels of aroclor-1254. The validation review of chromatograms and the quantitation reports demonstrated that the applied dilutions are appropriate. Therefore, the data quality was considered acceptable.

The positive results for sample A3-007 were qualified estimated since, the base line in chromatogram was elevated, "possible interference".

The results below the reporting limits were qualified estimated due to the uncertainty near the detection limits.

DATA COMPLETENESS

The laboratory case narrative inadvertently stated that the matrix spike of sample A2-008 had a slightly low spike recovery at 46%. The review of the raw data demonstrated a recovery of 68%. This value was correctly reported on Form III.

SUMMARY

The cooler temperatures were within the control limits. The analysis data packages followed the CLP type data package deliverable format. The data package completeness was satisfactory. The sulfur clean up analysis performed. The results from both sets of primary and secondary analyses were listed on similar form X. The lower of two values was reported on the form I. Overall the data quality was satisfactory, and major problems were not encountered during the sample analysis. The minor issues have been discussed. The reported data were summarized on the data summary with the applied qualifier codes.



- 1. Appendix A- Glossary of Data Qualifier**
- 2. Appendix B- Data Summary Forms**
- 3. Appendix C- Laboratory Results (Form I)**
- 4. Appendix D - Support Documentation**



Appendix A

Glossary of Data Qualifier



GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U** = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS.
[Substantially is equivalent to a result less than 10 times the blank level for common contaminants (methylene chloride, acetone and 2- butanone in the VOA analyses, and common phthalates in the BNA analyses, along with tentatively identified compounds) or less than 5 times the blank level for other target compounds.]
- R** = UNUSABLE RESULT. THE PRESENCE OR ABSENCE OF THIS ANALYTE CANNOT BE VERIFIED. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.
- N** = NEGATED COMPOUND. THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION.

CODES RELATING TO QUATITATION

(can be used for both positive results and sample quantitation limits):

- J** = ANALYTE WAS POSITIVELY IDENTIFIED. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.
- UJ** = ANALYTE WAS NOT DETECTED. THE REPORTED QUATITATION LIMIT IS QUALIFIED ESTIMATED.

OTHER CODES

- Q** = NO ANALYTICAL RESULT.



Appendix B

Data Summary Forms

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6178

Units: ug/kg

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Soil A1-003A	Soil A2 - 008	Soil A2 - 009	Soil A2 - 010	Soil A2 - 011	Soil A2 - 012	Soil A2 - 013	Soil A2 - 014	Soil A2 - 015
Client ID #	6178	6179	6180	6181	6182	6183	6184	6185	6186
Lab ID #	23	24	24	19	17	17	19	21	23
Percent Moisture	1	4	1	1	1	1	1	20	10
PCB MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	230	500	120	230	270	60	210	990 J
Aroclor-1260	33	83 J	140 J*	54	56 J	81 J	31 J*	58 J	750

Remark

Matrix	Soil A2 - 016	Soil A3 - 001	Soil A3 - 002	Soil A3 - 003	Soil A3 - 004	Soil A3 - 005	Soil A3 - 006	Soil A3 - 007	Soil A3 - 008
Client ID #	6187	6188	6189	6190	6191	6192	6193	6194	6195
Lab ID #	24	19	25	20	19	21	19	19	27
Percent Moisture	10	1	1	2	20	1	1	1	2
PCB MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	530 J	85 J	360	390	930 J	250	330	260 J
Aroclor-1260	33	U	32 J*	120 J	130	U	90	73 J	140 J

Remark

Field Dip

* Below the detection limits

**Polychlorinated Biphenyl (PCB) Analysis
Data summary**

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6178

Units: ug/kg

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Soil	Soil									
Client ID #	A3 - 009	A3 - 010									
Lab ID #	6196	6197									
Percent Moisture	22	19									
Dilution Factor	10	10									
PCB	MDL ug/kg										
Aroclor-1016	33	U	U								
Aroclor-1221	67	U	U								
Aroclor-1232	33	U	U								
Aroclor-1242	33	U	U								
Aroclor-1248	33	U	U								
Aroclor-1254	33	700 J	350 J*								
Aroclor-1260	33	U	U								

Remark

* Below the detection limits

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6198

Units: ug/kg

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Soil A4-001	Soil A4- 002	Soil A4 - 003	Soil A4 - 004	Soil A4 - 005	Soil A4 - 006	Soil A4 - 007	Soil A4 - 008	Soil A4 -009
Client ID #	6198	6199	6200	6201	6202	6203	6204	6205	6206
Lab ID #	20	21	20	19	22	20	22	18	22
Percent Moisture	1	1	1	10	2	2	1	1	4
Dilution Factor									
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	270	300	140	1200 J	390	400	37 J*	65
Aroclor-1260	33	110	110	69	170 J*	98 J	110 J	17 J*	24 J*
									900
									200 J

Remark

Matrix	Soil A4 - 010	Soil A4 - 011							
Client ID #	6207	6208							
Lab ID #	26	9							
Percent Moisture	1	1							
Dilution Factor									
PCB	MDL ug/kg								
Aroclor-1016	33	U	U						
Aroclor-1221	67	U	U						
Aroclor-1232	33	U	U						
Aroclor-1242	33	U	U						
Aroclor-1248	33	U	U						
Aroclor-1254	33	270	130						
Aroclor-1260	33	100	37 J						

**Polychlorinated Biphenyl (PCB) Analysis
Data summary**

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6198

Units: ug/l

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Water										
Client ID #	RB-2										
Lab ID #	6209										
Percent Moisture	1										
Dilution Factor											
PCB	MDL ug/L										
Aroclor-1016	1.0	U									
Aroclor-1221	2.0	U									
Aroclor-1232	1.0	U									
Aroclor-1242	1.0	U									
Aroclor-1248	1.0	U									
Aroclor-1254	1.0	U									
Aroclor-1260	1.0	U									

Remark



Appendix C

Laboratory Reported Result

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1-003A

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6178

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	87	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	230	P	
11096-82-5-----	Aroclor-1260	83	P	J

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-008

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6179

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	350	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	500	P	
11096-82-5-----	Aroclor-1260	140	JP	J

BOL

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-009

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6180

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016		43	U
11104-28-2-----Aroclor-1221		88	U
11141-16-5-----Aroclor-1232		43	U
53469-21-9-----Aroclor-1242		43	U
12672-29-6-----Aroclor-1248		43	U
11097-69-1-----Aroclor-1254		120	P
11096-82-5-----Aroclor-1260		54	P

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-010

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6181

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q		
		41	U	
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	230		
11096-82-5-----	Aroclor-1260	56	P J	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-011

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6182

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 17 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	81	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	270		
11096-82-5-----	Aroclor-1260	81	P J	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-012

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6183

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	81	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	60	P	
11096-82-5-----	Aroclor-1260	31	J*	

830L

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-013

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6184

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016		41	U
11104-28-2-----	Aroclor-1221		83	U
11141-16-5-----	Aroclor-1232		41	U
53469-21-9-----	Aroclor-1242		41	U
12672-29-6-----	Aroclor-1248		41	U
11097-69-1-----	Aroclor-1254		210	P
11096-82-5-----	Aroclor-1260		58	J

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-014

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6185

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	840	U	
11104-28-2-----	Aroclor-1221	1700	U	
11141-16-5-----	Aroclor-1232	840	U	
53469-21-9-----	Aroclor-1242	840	U	
12672-29-6-----	Aroclor-1248	840	U	
11097-69-1-----	Aroclor-1254	990	P J	
11096-82-5-----	Aroclor-1260	840	U	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-015

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6186

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016		430	U
11104-28-2-----Aroclor-1221		870	U
11141-16-5-----Aroclor-1232		430	U
53469-21-9-----Aroclor-1242		430	U
12672-29-6-----Aroclor-1248		430	U
11097-69-1-----Aroclor-1254		1500	
11096-82-5-----Aroclor-1260		750	✓

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-016

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6187

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND.		
12674-11-2-----	Aroclor-1016	430	U
11104-28-2-----	Aroclor-1221	880	U
11141-16-5-----	Aroclor-1232	430	U
53469-21-9-----	Aroclor-1242	430	U
12672-29-6-----	Aroclor-1248	430	U
11097-69-1-----	Aroclor-1254	530	P J
11096-82-5-----	Aroclor-1260	430	U

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6188

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	85	P J	
11096-82-5-----	Aroclor-1260	32	J \$	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-002

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6189

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 25 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2-----	Aroclor-1016	44	U
11104-28-2-----	Aroclor-1221	89	U
11141-16-5-----	Aroclor-1232	44	U
53469-21-9-----	Aroclor-1242	44	U
12672-29-6-----	Aroclor-1248	44	U
11097-69-1-----	Aroclor-1254	360	
11096-82-5-----	Aroclor-1260	120	P J

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^{1D}
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-003

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6190

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q		
12674-11-2-----	Aroclor-1016		82	U
11104-28-2-----	Aroclor-1221		170	U
11141-16-5-----	Aroclor-1232		82	U
53469-21-9-----	Aroclor-1242		82	U
12672-29-6-----	Aroclor-1248		82	U
11097-69-1-----	Aroclor-1254		390	P
11096-82-5-----	Aroclor-1260		130	P

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-004

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6191

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	810	U	
11104-28-2-----	Aroclor-1221	1700	U	
11141-16-5-----	Aroclor-1232	810	U	
53469-21-9-----	Aroclor-1242	810	U	
12672-29-6-----	Aroclor-1248	810	U	
11097-69-1-----	Aroclor-1254	930	P	J
11096-82-5-----	Aroclor-1260	810	U	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-005

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6192

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	85	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	250		
11096-82-5-----	Aroclor-1260	90	P	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-006

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6193

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	330		
11096-82-5-----	Aroclor-1260	73	P J	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-007

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6194

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	260	J	
11096-82-5-----	Aroclor-1260	140	J	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-008

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6195

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 27 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	90	U	
11104-28-2-----	Aroclor-1221	180	U	
11141-16-5-----	Aroclor-1232	90	U	
53469-21-9-----	Aroclor-1242	90	U	
12672-29-6-----	Aroclor-1248	90	U	
11097-69-1-----	Aroclor-1254	420		
11096-82-5-----	Aroclor-1260	120	P	J

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-009

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6196

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	420	U
11104-28-2-----	Aroclor-1221	860	U
11141-16-5-----	Aroclor-1232	420	U
53469-21-9-----	Aroclor-1242	420	U
12672-29-6-----	Aroclor-1248	420	U
11097-69-1-----	Aroclor-1254	700	P J
11096-82-5-----	Aroclor-1260	420	U

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-010

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6197

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	410	U
11104-28-2-----	Aroclor-1221	830	U
11141-16-5-----	Aroclor-1232	410	U
53469-21-9-----	Aroclor-1242	410	U
12672-29-6-----	Aroclor-1248	410	U
11097-69-1-----	Aroclor-1254	350	JP JF
11096-82-5-----	Aroclor-1260	410	U

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A4-001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6198

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	84	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	270		P
11096-82-5-----	Aroclor-1260	110		

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-002

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6199

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 21 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	85	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	300	P	
11096-82-5-----	Aroclor-1260	110		

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-003

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6200

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	84	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	140		
11096-82-5-----	Aroclor-1260	69		

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PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-004

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6201

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	410	U	
11104-28-2-----	Aroclor-1221	830	U	
11141-16-5-----	Aroclor-1232	410	U	
53469-21-9-----	Aroclor-1242	410	U	
12672-29-6-----	Aroclor-1248	410	U	
11097-69-1-----	Aroclor-1254	1200	P	J*
11096-82-5-----	Aroclor-1260	170	JP	J*

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-005

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6202

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	85	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	85	U	
53469-21-9-----	Aroclor-1242	85	U	
12672-29-6-----	Aroclor-1248	85	U	
11097-69-1-----	Aroclor-1254	390	P✓	J
11096-82-5-----	Aroclor-1260	98	P	J

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PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-006

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6203

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20

decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc)

SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	82	U
11104-28-2-----	Aroclor-1221	170	U
11141-16-5-----	Aroclor-1232	82	U
53469-21-9-----	Aroclor-1242	82	U
12672-29-6-----	Aroclor-1248	82	U
11097-69-1-----	Aroclor-1254	400	
11096-82-5-----	Aroclor-1260	110	P J

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-007

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6204

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	86	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	37	J*	J*
11096-82-5-----	Aroclor-1260	17	J*	J*

PDL

FORM I PEST

SW8082

46

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-008

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6205

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 18 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016	40	U
11104-28-2-----	Aroclor-1221	82	U
11141-16-5-----	Aroclor-1232	40	U
53469-21-9-----	Aroclor-1242	40	U
12672-29-6-----	Aroclor-1248	40	U
11097-69-1-----	Aroclor-1254	65	P
11096-82-5-----	Aroclor-1260	24	JP J*

BDL

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-009

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6206

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	340	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	900	P	
11096-82-5-----	Aroclor-1260	200	P J	

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-010

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6207

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 26 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

12674-11-2-----Aroclor-1016		45	U
11104-28-2-----Aroclor-1221		91	U
11141-16-5-----Aroclor-1232		45	U
53469-21-9-----Aroclor-1242		45	U
12672-29-6-----Aroclor-1248		45	U
11097-69-1-----Aroclor-1254		270	
11096-82-5-----Aroclor-1260		100	P

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-011

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6208

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----Aroclor-1016		36	U	
11104-28-2-----Aroclor-1221		74	U	
11141-16-5-----Aroclor-1232		36	U	
53469-21-9-----Aroclor-1242		36	U	
12672-29-6-----Aroclor-1248		36	U	
11097-69-1-----Aroclor-1254		130	P	J
11096-82-5-----Aroclor-1260		37		

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

RB-2

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) WATER Lab Sample ID: 6209

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
12674-11-2-----	Aroclor-1016		1.0	U
11104-28-2-----	Aroclor-1221		2.0	U
11141-16-5-----	Aroclor-1232		1.0	U
53469-21-9-----	Aroclor-1242		1.0	U
12672-29-6-----	Aroclor-1248		1.0	U
11097-69-1-----	Aroclor-1254		1.0	U
11096-82-5-----	Aroclor-1260		1.0	U



Appendix D

Support Documentation

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	123	114	114	109			0
02	A1-003A	106	100	176*	183*			2
03	A2-008	108	104	124	136			0
04	A2-008MS	107	100	100	113			0
05	A2-008MSD	104	103	122	129			0
06	A2-009	113	106	99	98			0
07	A2-010	102	100	115	116			0
08	A2-011	132	122	110	107			0
09	A2-012	117	110	96	98			0
10	A2-013	116	109	117	114			0
11	A2-014	113	102	154*	112			1
12	A2-015	114	105	143	140			0
13	A2-016	104	95	117	111			0
14	A3-001	119	110	104	111			0
15	A3-002	103	95	123	121			0
16	A3-003	103	101	116	109			0
17	A3-004	112	101	145	106			0
18	A3-005	119	113	108	129			0
19	A3-006	116	107	102	98			0
20	A3-007	104	92	120	98			0
21	A3-008	108	104	144	130			0
22	A3-009	126	118	162*	154*			2
23	A3-010	110	104	132	167*			1

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)
 DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

SAMPLE NO.	TCX %REC #	TCX %REC #	DCB %REC #	DCB %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKS1	110	101	107	104			0
02 A4-001	113	104	104	100			0
03 A4-001MS	110	106	110	94			0
04 A4-001MSD	112	107	102	92			0
05 A4-002	112	107	133	128			0
06 A4-003	108	102	108	91			0
07 A4-004	110	106	128	112			0
08 A4-005	108	104	109	110			0
09 A4-006	106	102	94	94			0
10 A4-007	49*	48*	38*	42*			0
11 A4-008	126	118	111	109			0
12 A4-009	105	104	99	101			0
13 A4-010	109	103	109	102			0
14 A4-011	96	92	82	96			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)
 DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2E
WATER PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKW1	16*	16*	68	66			2
02 RB-2	102	96	29*	26*			2
03 RB-2MS	96	92	43	41			0
04 RB-2MSD	86	82	43	41			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)

DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix Spike -

Sample No.: A2-008

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	220	500	650	68	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	220	670	77	12	35	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-2

SW8082

3F
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix Spike -

Sample No.: A4-001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	208	270	380	52.8	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	208	410	67.3	24.1	35	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-2

SW8082

3E
WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916 SAS No.:

SDG No.: 6198

Matrix Spike - Sample No.: RB-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1254	10.0	0.0	8.0	80	50-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Aroclor-1254	10.0	7.5	75	6.5	2 50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-1

SW8082



ecology and environment, inc.

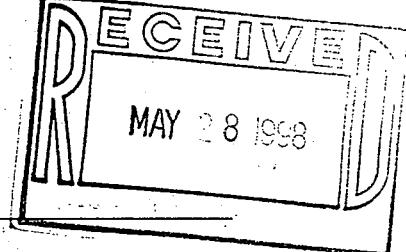
International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852



May 27, 1998

LAB NAME: Ecology & Environment Inc.

PROJECT NUMBER: RFP #2535

SDG NARRATIVE:

Sample results are reported in the CLP format using CLP qualifiers.

The software used to generate the final report rounds the calibration factor to three significant figures in the final calculations.

Due to rounding or the chromatographers opinion not to use of some of the identified peaks due to interferences, some PCB quantitation values on the sample chromatograms may differ from the results reported on the form I.

Samples underwent sulfur cleanup procedures.

Several samples required analysis at secondary dilutions due to the concentrations of PCBs present.

Recovery of the surrogate decachlorobiphenyl was not met for samples A1-003A, A2-014, A3-009, and A3-010 on one or both columns. Recoveries were all high, ranging from 154% to 183% (upper limit is 150%).

Recovery of the surrogate tetrachloro-m-xylene was within acceptable limits for all samples.

~~X~~ The matrix spike analysis of sample A2-008 had a slightly low spike recovery at 46% (lower limit is 50%). The matrix spike duplicate had an acceptable spike recovery at 55%. No further action is required.

The continuing calibration check standard analyzed on 5/21/98 at 1231 hours showed a slight increase in sensitivity for decachlorobiphenyl. Except for sample A2-014 (154% on RTX-5 column), all associated samples met surrogate recovery criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Caryn Wojtowicz
Caryn Wojtowicz - Project Manager
Analytical Services Center
May 27, 1998

2



END OF DATA PACKAGE

START DATA SIGN-OFF SHEET

Task/Site: Cornell Dubilier Electronics Site

TDD #: _____

PCS #: 2523Sampling Date: 4/20-5/5/98Date Received: 5/11-21/98

DCN #: _____

Lab: AEN, INC.Matrix: Soil# Samples: 385Analysis: PCBs

DATA PACKAGE CHAIN OF CUSTODY

RELINQUISHED BY:			RECEIVED BY:		
Signature:	Date:	Fraction:	Signature:	Date:	Fraction:
Smita Sumbaly.	5/22	Organic	Zohreh Hamid	5/23	Organic

1. Data Reviewer

Zohreh Hamid

Name

06/16/98

Date

2. Group Leader/Peer Review

 Name Date

3. Approval (Group Leader/ATeam Mgr.)

 Name Date